

| Project Title | Funding | Strategic Plan Objective | Institution |
|--|----------|--------------------------|---|
| Integrative Regulatory Network Analysis of iPSCs Derived Neuronal Progenitors from Macrocephalic ASD Individuals in a Family-based Design | \$0 | Q2.Other | Yale University |
| Corticogenesis and Autism Spectrum Disorders: New Hypotheses on Transcriptional Regulation of Embryonic Neurogenesis by FGFs from In Vivo Studies and RNA-sequencing Analysis of Mouse Brain | \$0 | Q2.Other | Yale University |
| Modeling Microglial Involvement in Autism Spectrum Disorders, with Human Neuro-glial Co-cultures | \$0 | Q2.S.D | Whitehead Institute for Biomedical Research |
| Studying Rett and Fragile X syndrome in human ES cells using TALEN technology | \$30,000 | Q2.S.D | Whitehead Institute for Biomedical Research |
| Brain Connectivity Changes in Autism as a Function of Motor Training: A Pilot Study | \$0 | Q4.S.F | University of Wisconsin |
| Probing the temporal dynamics of aberrant neural communication and its relation to social processing deficits in autism spectrum disorders | \$29,987 | Q2.Other | University of Pittsburgh |
| Modeling Pitt-Hopkins Syndrome, an Autism Spectrum Disorder, in Transgenic Mice Harboring a Pathogenic Dominant Negative Mutation in TCF4 | \$30,000 | Q2.S.D | University of North Carolina |
| Brain Transcriptome Sequencing and Non-coding RNA Characterization in Autism Spectrum Disorders | \$14,950 | Q2.Other | University of New South Wales |
| A Novel Glial Specific Isoform of Cdkl5: Implications for the Pathology of Autism in Rett Syndrome | \$0 | Q2.S.D | University of Nebraska |
| Reconceptualizing Brain Connectivity and Development in Autism | \$0 | Q2.Other | University of Miami |
| Investigating the Role of RBFOX1 in Autism Etiology | \$30,000 | Q2.Other | University of Miami |
| Cellular and Synaptic Dissection of the Neuronal Circuits of Social and Autistic Behavior | \$30,000 | Q3.S.K | University of Coimbra |
| Development of a connectomic functional brain imaging endophenotype of autism | \$27,327 | Q2.Other | University of Cambridge |
| Regulation of Interneuron Development in the Cortex and Basal Ganglia by Coup-TF2 | \$30,000 | Q2.Other | University of California, San Francisco |
| Investigations of a Proposed Molecular Feedback Loop in Cortical Neurons in Psychiatric Pathogenesis | \$25,000 | Q4.S.B | University of California, San Francisco |
| The Interplay Between Human Astrocytes and Neurons in Psychiatric Disorders | \$0 | Q2.Other | University of California, San Diego |
| Signaling Pathways that Regulate Excitatory-inhibitory Balance | \$0 | Q2.Other | University of California, San Diego |
| A Role for Cytoplasmic Rbfox1/A2BP1 in Autism | \$30,000 | Q2.Other | University of California, Los Angeles |
| TSC/mTOR Signaling in Adult Hippocampal Neurogenesis: Impact on Treatment and Behavioral Models of Autism Spectrum Disorders in Mice | \$0 | Q2.Other | University of California, Los Angeles |
| Abnormal connectivity in autism | \$0 | Q2.Other | University of California, Los Angeles |
| a-Actinin Regulates Postsynaptic AMPAR Targeting by Anchoring PSD-95 | \$30,000 | Q2.Other | University of California, Davis |
| | | | |

| Project Title | Funding | Strategic Plan Objective | Institution |
|--|----------|--------------------------|---|
| Autism Linked LRRTM4-Heparan Sulphate Proteoglycan Complex Functions in Synapse Development | \$30,000 | Q2.S.G | University of British Columbia |
| High-throughput Screening of Novel Trinucleotide Repeat Expansion in Autism Spectrum Disorders | \$0 | Q3.L.B | The Hospital for Sick Children |
| Antigenic Specificity and Neurological Effects of Monoclonal Anti-brain Antibodies Isolated from Mothers of a Child with Autism Spectrum Disorder: Toward Protection Studies | \$0 | Q2.S.A | The Feinstein Institute for Medical Research |
| Interrogating Synaptic Transmission in Human Neurons | \$0 | Q2.Other | Stanford University |
| Behavioral, Cognitive, and Neural Signatures of Autism in Girls: Towards Big Data Science in Psychiatry | \$0 | Q2.S.B | Stanford University |
| Novel Proteomics Approach to Oxidative Posttranslational Modifications Underlying Anxiety and Autism Spectrum Disorders | \$65,859 | Q3.S.E | Sanford Burnham Medical Research Center |
| Enhancing Social Learning Through Oxytocin Augmentation of Social Skills Groups in Children with ASD | \$0 | Q4.L.D | Rush University |
| Identifying Patterns of Genetic Variants Conferring Risk for Neurodevelopmental Disorders | \$0 | Q3.L.B | Pennsylvania State University |
| A Massively Parallel Approach to Functional Testing of PTEN Mutations | \$0 | Q2.S.G | Oregon Health & Science University |
| Dissecting the Human Magnocellular Visual Pathway in Perceptual Disorders | \$0 | Q2.Other | New York University |
| Dysregulated Translation and Synaptic Dysfunction in Medium Spiny Neurons of Autism Model Mice | \$66,667 | Q2.Other | New York University |
| Predicting outcomes in autism with functional connectivity MRI | \$17,381 | Q1.L.B | National Institutes of Health |
| Multimodal Characterization of the Brain Phenotype in Children with Duplication of the 7q11.23 Williams Syndrome Chromosomal Region: A Well-defined Genetic Model for Autism | \$0 | Q2.S.G | National Institutes of Health |
| The use of non-invasive brain stimulation to improve social relating in autism spectrum disorders | \$28,000 | Q4.S.F | Monash University |
| A Novel GABA Signalling Pathway in the CNS | \$25,000 | Q2.Other | MCLEAN HOSPITAL |
| Perturbation of Excitatory Synapse Formation in Autism Spectrum Disorders | \$30,000 | Q2.Other | Max Planck Florida Institute for Neuroscience |
| Role of Serotonin Signaling during Neural Circuitry Formation in Autism Spectrum Disorders | \$0 | Q2.S.D | Massachusetts Institute of Technology |
| Genotype to Phenotype Association in Autism Spectrum Disorders | \$0 | Q2.S.G | Massachusetts General Hospital |
| Sequence-based discovery of genes with pleiotropic effects across diagnostic boundaries and throughout the lifespan | \$29,995 | Q3.L.B | Massachusetts General Hospital |

| Project Title | Funding | Strategic Plan Objective | Institution |
|---|----------|--------------------------|---|
| Identification and Functional Analysis of Risk Genes for Autistic Macrocephaly | \$30,000 | Q2.S.G | King's College London |
| The role of the GRIP protein complex in AMPA receptor trafficking and autism spectrum disorders | \$45,000 | Q2.Other | Johns Hopkins University |
| Epigenetic Regulation of Gene Expression and DNA Methylation Associated with Autism Spectrum Disorders | \$0 | Q3.S.J | Johns Hopkins University |
| Brain-behavior interactions and visuospatial expertise in autism: a window into the neural basis of autistic cognition | \$0 | Q2.Other | Hospital Riviere-des-Praires, University of Montreal, Canada |
| Exploration of resting-state network dynamics in autism spectrum disorders | \$30,000 | Q4.Other | Harvard University |
| Engagement of Social Cognitive Networks during Game Play in Autism | \$29,933 | Q2.Other | Duke University |
| Dissecting Reciprocal CNVs Associated With Autism | \$30,000 | Q2.Other | Duke University |
| Characterization of synaptic and neural circuitry dysfunction underlying ASD-like behaviors using a novel genetic mouse model | \$15,000 | Q4.S.B | Duke University |
| Excitatory/Inhibitory Imbalance in Autism and Early-course Schizophrenia | \$0 | Q2.L.B | Connecticut Mental Health Center |
| Neural Basis of Deficits in Multisensory Integration in Schizophrenia and ASD | \$0 | Q2.Other | Columbia University |
| Evaluating the Functional Impact of Epigenetic Control Related Genes Mutated in both Schizophrenia and Autism | \$30,000 | Q3.S.J | Columbia University |
| Understanding the Genetic Architecture of Rett Syndrome - an Autism Spectrum Disorder | \$30,000 | Q2.S.D | Cold Spring Harbor Laboratory |
| Whole Brain Mapping of the Effects of Intranasal Oxytocin in CNTNAP2 KO Mouse Model of Autism | \$30,000 | Q4.Other | Cold Spring Harbor Laboratory |
| Pinpointing Genes Underlying Autism in Chromosomal Region 16p11.2 | \$30,000 | Q4.S.B | Cold Spring Harbor Laboratory |
| Using near-infrared spectroscopy to measure the neural correlates of social and emotional development in infants at risk for autism spectrum disorder | \$0 | Q1.L.A | City of New York, College of Staten Island |
| The PI3K Catalytic Subunit p110delta as Biomarker and Therapeutic Target in Autism and Schizophrenia | \$15,000 | Q2.Other | Cincinnati Children's Hospital Medical Center |
| Developmental in Axons underlie Neuropsychiatric Illness | \$30,000 | Q2.Other | Children's Research Institute (CRI) Children's National Medical Center |
| Activity-dependent Mechanisms of Visual Circuit Formation | \$30,000 | Q2.Other | Children's Research Institute (CRI) Children's National Medical Center |
| Investigating brain organization and activation in autism at the whole-brain level | \$30,000 | Q2.Other | California Institute of Technology |
| Rebuilding Inhibition in the Autistic Brain | \$0 | Q4.S.B | Brandeis University |

